BIOGRAPHICAL SKETCH

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NAME: Yuval Neria

eRA COMMONS USER NAME (credential, e.g., agency login): YUVALNERIA

POSITION TITLE: Professor of Medical Psychology and Director of PTSD Program

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	Completion Date MM/YYYY	FIELD OF STUDY
Hebrew University, Jerusalem, Israel	BA	1977	Philosophy
Hebrew University, Jerusalem, Israel	BA (Hon)	1977	Political Sc.
Hebrew University, Jerusalem, Israel	MA (Hon)	1982	Psychology
University of Haifa, Israel	PhD	1994	Psychology

A. Personal Statement

I have been interested in studying the pathophysiology of PTSD and its treatment for more than three decades. As Professor of Medical Psychology and Director of PTSD Program at Columbia/Psychiatry and New York State Psychiatric Institute I have gained considerable experience in conducting translational research of trauma and PTSD. I have been the PI on numerous NIMH, NARSAD and foundation supported studies, including three NIMH RO1s. I have conducted epidemiological, treatment and neuroimaging studies and gained expertise in the use of clinical assessments, MRI and fMRI, and various behavioral tasks that involve fear and reward circuits of the brain. Additionally, I have been continuously mentored young scientists for their NARSAD, T32 and K awards for more than a decade.

L. Helpman, S. Papini, B. T. Chhetry, E. Shvil, M. Rubin, GM. Sullivan, JC. Markowitz, J.J. Mann, **Y. Neria**. PTSD Remission after Prolonged Exposure Treatment is Associated with Anterior Cingulate Cortex thinning. Depression and Anxiety. 2016; 384–391. DOI: 10.1002/da.22471.

A. Lazarov, X. Zhu, B. Suarez-Jimenez, B. Rutherford, **Y. Neria**. Resting-State Functional Connectivity of Anterior and Posterior Hippocampus in Posttraumatic Stress Disorder. Journal of Psychiatric Research. (2017). Jun 13;94:15-22. doi: 10.1016/j.jpsychires.

X. Zhu, B. Suarez-Jimenez, A. Lazarov, L. Helpman, S. Papini, A. Lowell, A. Durosky, M. A. Lindquist, J. C. Markowitz, F. Schneier, T. D. Wager, **Y. Neria,** (2018): Exposure-Based Therapy Changes Amygdala and Hippocampus Resting-State Functional Connectivity in Patients with PTSD. Depression and Anxiety. 2018 Oct;35(10):974-984. doi: 10.1002/da.22816A.

Lazarov, B. Suarez-Jimenez, O. Levy*, D. L. Coppersmith, G. Lubin, D. S. Pine, Y. Bar-Haim, R. Abend, **Y. Neria**. Symptom Structure of PTSD and Co-Morbid Depressive Symptoms - A Network Analysis of Combat Veteran Patients. Psychological Medicine. 2019. doi: 10.1017/S0033291719002034.

B. Positions and Honors

1985-1987 Research Scientist, The Van Leer Institute, Jerusalem, Israel
1988-1989 Teacher, Department of Psychology, University of Haifa, Israel
1994-1995 Teacher, School of social work, Tel Aviv University, Israel
1995-2001 Lecturer, School of social work, Tel Aviv University, Israel
1999-2000 Visiting Professor, Division of Epidemiology, Department of Psychiatry and Behavioral Science, State University of New York at Stony Brook, NY
2000-2001 Research Scientist, Division of Epidemiology, Department of Psychiatry and Behavioral Science, State University of New York at Stony Brook, NY
2000-2001 Visiting Research Associate, School of Public Health, Department of Epidemiology, Columbia University, New York, NY
2001-present Research Scientist (VI), Anxiety Disorders Clinic, New York State Psychiatric Institute, New York, NY
2001-2002 Associate Research Scientist, Department of Epidemiology, Mailman School of Public Health, Columbia University, New York, NY
2001-2002 Assistant Professor of Clinical Psychology (in Psychiatry), Department of Psychiatry Columbia University College of Physicians and Surgeons, New York, NY
2002-2006 Associate Clinical Professor of Medical Psychology (in Psychiatry and Epidemiology), Department of Psychiatry, College of Physicians and Surgeons, and Department of Epidemiology, Mailman School of Public Health, Columbia University
2006-2011 Associate Professor of Clinical Psychology (in Psychiatry and Epidemiology), Department of Psychiatry, College of Physicians and Surgeons, and Department of Epidemiology, Mailman School of Public Health, Columbia University
2011-2013 Professor of Clinical Psychology (in Psychiatry), Department of Psychiatry, College of Physicians and Surgeons, Columbia University
2011-2013 Professor of Clinical Psychology (in Epidemiology), Department of Epidemiology, Mailman School of Public Health, Columbia University
2013-present Professor of Medical Psychology at Columbia University Medical Center, Department of Psychiatry, Columbia University
2013-present Professor of Medical Psychology at Columbia University Medical Center, Department of Epidemiology, Mailman School of Public Health, Columbia University

Administrative Position:

2007-present Director, Trauma and PTSD program, Columbia Psychiatry and New York State Psychiatric Institute
2016-persent Director, New York Presbyterian-Columbia Military Family Wellness Center

Honors and Awards

1996-1999 The Israel Council for Higher Education Alon Award (equivalent to K award)
2007 NARSAD Klerman Award for Outstanding Clinical Research
2019 Member, National Academies of Sciences, Engineering, and Medicine, Committee to review the Long-Term Effects of Antimalarial Drugs

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C. Contribution to Science

The long-term emotional consequences of extreme exposure among POWs and veterans. To identify the long-term emotional consequences of extreme exposure to trauma I have conducted the largest study to date among Israeli prisoners of wars almost two decades after release from captivity. Findings indicate that the consequences of war captivity are more severe than those of war trauma, and they are wide ranging and disabling even decades after the trauma.

Y. Neria, Z. Solomon, R. Dekel. An eighteen-year follow up of Israeli prisoners of war and combat veterans. The Journal of Nervous and Mental Disease. Vol. 186, 1998, (pp. 174-182). PMID: 9521353

Y. Neria, Z. Solomon, K. Ginzburg, R. Dekel, D. Enoch, A. Ohry. Posttraumatic residues of captivity: A follow-up of Israeli ex-Prisoners of War. Journal of Clinical Psychiatry. Vol. 61, 2000, (pp. 39-46). PMID: 10695645

Y. Neria, Z. Solomon, K. Ginzburg, R. Sensation seeking, wartime performance, and long-term adjustment among Israeli war veterans. Personality and Individual Differences. Vol. 29, 2000, (pp. 921932). DOI:10.1016/S0191-8869(99)00243-3.

The role of trauma exposure in first onset psychosis. While working in Dr. Evelyn Bromet, a psychiatric epidemiologist at Stony Brook University (1999-2000), I have analyzed data collected as part of NIMH studies (Bromet, PI) among patients with first onset psychosis, demonstrating that exposure to trauma has the potential to increase risk of not only PTSD and include schizophrenia, depression, bipolar illness.

Y. Neria, E.J. Bromet, S. Sievers, J. Lavelle, L. J. Fochtmann. Trauma Exposure and Posttraumatic Stress Disorder in Psychosis: Findings from a first-admission cohort. Journal of Consulting and Clinical Psychology. Vol 70, 2002, (pp. 246-251). DOI: 10.1037/0022-006X.70.1.246. PMID: 11860051

Y. Neria, E. J. Bromet, G.A. Carlson, B. Naz. Assaultive trauma and illness course in psychotic bipolar disorder: findings from the Suffolk county mental health project. Acta Psychiatrica Scandinavica**.** Vol. 11, 2005, (pp.380-383). DOI: 10.1111/j.1600-0447.2005.00530.x. PMID: 15819732

The effect of 9/11 attacks on low-income primary care patients in New York City. In a longitudinal study funded by an RO1 from NIMH (Neria, PI) we followed up a large cohort of low income primarily immigrant cohort 1 and 4 years after 9/11 attacks. The findings have shown a particular risk in this population for a host of disorders including PTSD, depression, bipolar illness, GAD, functional impairment and suicidal ideation.

Y. Neria, M. Olfson, M. Gameroff, R. Gross, D. Pilowsky P. C. Blanco J. Manetti-Cusa Wickramaratne, R. Lantigua, S. Shea, M. M. Weissman. The Mental Health Sequelae of Loss: Findings from a New York City Primary Care Practice One Year after the 9/11 Attacks. Psychiatry. Vol 71, 2008 (pp. 339348). DOI: 10.1521/psyc.2008.71.4.339.

Neria Y, Olfson M, Gameroff MJ, DiGrande L, Wickramaratne P, Gross R, Pilowsky DJ, Neugebauer R, Manneti-Cusa J, Lewis-Fernandez R, Lantigua R, Shea S, Weissman M. Long Term Course of Probable PTSD after the 9/11 Attacks: A Study in Urban Primary Care. Journal of Traumatic Stress. Vol 23, 2010 (pp 474–482). DOI: 10.1002/jts.20544. PMID: 20690169

Neural signature of trauma and PTSD. Funded by NIMH I have led two RO1 studies aiming to identify a cross diagnostic neural signature of trauma, and neuromarkers for diagnosis and treatment response in PTSD. Since most assessment tools to date are based on self-reports, these studies, applying a range of neuroimaging methods, have the potential to significantly contribute to our understanding of trauma related neural impairments, and the neurobiology of PTSD, and its treatment.

M. Rubin, E. Shvil, S. Papini, L. Helpman,, J.C. Markowitz, J. J. Mann, **Y. Neria**. Hippocampal Volume is Associated with Treatment Response in PTSD. Psychiatry Research, Neuroimaging. 2016; 252: 36– 39.

L. Helpman, S. Papini, B. T. Chhetry, E. Shvil, M. Rubin, GM. Sullivan, JC. Markowitz, J.J. Mann, **Y. Neria**. PTSD Remission after Prolonged Exposure Treatment is Associated with Anterior Cingulate Cortex thinning. Depression and Anxiety. 2016; 384–391. DOI: 10.1002/da.22471.

L. Helpman, MF. Marin, S. Papini, X. Zhu, GM. Sullivan, F. Schneier, M. Neria, E. Shvil, MJ. Malaga Aragon, JC. Markowitz, MA. Lindquist, T. Wager, M. Milad, **Y. Neria**. Neural Changes in Extinction Recall Following Prolonged Exposure Treatment for PTSD: A Longitudinal fMRI Study. Neuroimage: Clinical. 2016. 12, 715-723. PMC5065048

D. Additional Information: Research Support and/or Scholastic Performance

Ongoing Research Support

R01MH105355-01A1 (Neria) 7/1/15-5/30/20
NIMH
Neural Signature of Fear Overgeneralization in Trauma Exposed Adults
To use fMRI and machine learning analysis among trauma exposed adults and matched controls in order to characterize the neural signature of fear overgeneralization across diagnostic boundaries.
Role: Principal Investigator

R01 MH111596-01 (Rutherford) 7/1/2017-6/30/2022
NIMH
Cognitive and neural Mechanisms of Accelerating Aging in PTSD
To understand the biological mechanisms leading to increased rates of aging-associated medical diseases, cognitive decline, and frailty characteristics in older adults with PTSD. Role: Co Investigator (Site PI)

New York Presbyterian Hospital (Neria) 1/1/2016-12/31/2020
NYP-Columbia Military Wellness Center
To provide evidence-based assessment and treatment for military personnel and their family members.
Role: PI

Bob Woodruff Foundation (Neria/Lowell) 09/24/2018-09/23/2020
To provide support to the NYP-Columbia Military Wellness Center Role:
Role: PI

NIMH K01 (Jimenez-Suarez) 09/01/18-08/30/22
This NIMH K01 grant will be used to train in multimodal MRI techniques, extend knowledge in PTSD, and train in clinical assessments. In addition, this grant will use MRI and virtual reality to assess neural signatures of Trauma exposed participants with and without PTSD, and healthy controls without trauma exposure.
Role: Mentor

NARSAD Young Investigator Grant (Suarez-Jimenez) 01/01/18-01/30/20
The Neural Correlates of Location-Specific Fear Learning in PTSD
This project will examine the neural signatures of PTSD and Trauma exposed participants using virtual reality paradigms and fMRI. Role: Mentor

NARSAD Young Investigator Grant (Zhu) 01/01/19-01/30/21
Towards Precision Diagnosis for PTSD using multimodal MRI: A Multisite Big Data Study This project will use the ENIGMA data to classify PTSD from controls using multimodal MRI. Role:
Mentor